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TITLE : PRODUCTION OF POLYESTER FIBER

ABSTRACT : PURPOSE: To obtain a fiber having grooved fiber surface and wool-like feeling by producing a conjugate fiber having a sheath composed of a polymer produced by adding a specific glycol to a polyester containing a specific acid component and a core component composed of a common polyester and thinning the conjugate fiber with an alkali.

CONSTITUTION: The conjugate fiber to be used as the starting material contains (A) a sheath component composed of a polymer produced by adding 0.5-3 pts.wt. of a polyalkylene glycol having a molecular weight of 1,000-20,000 to 100 pts.wt. of a polyester containing 2.5-7.5mol% (based on the total acid component) of a 5-alkali metal sulfoisophthalate at a ratio (A:B) of 1:4 to 4:1. The fiber is treated with an aqueous solution of preferably potassium hydroxide until ≥ 3 wt.% of the fiber is dissolved to effect the thinning treatment of the fiber and obtain a polyester fiber having grooved fiber-surface structure crossing the fiber axis at right angle. The woven or knit fabric of the fiber is resistant to the slippage of the fiber and has a wool-like soft feeling.

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